

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU 99/00207**A. CLASSIFICATION OF SUBJECT MATTER**Int Cl<sup>6</sup>: C07K 7/64, 7/66, 7/50

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MEDLINE

CHEMICAL ABSTRACTS (PEPTIDE, MIMETIC, TURN, BETA, GAMMA, BICYCLIC, REVERSE)

WPIDS

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Current Medicinal Chemistry, Volume 5, No: 1, issued February 1998, David P Fairlie et al, "Towards Protein Surface Mimetics", pages 29-62 Formulas 14 (page 36), 21 (page 37), 22 to 24 (page 38), 36 and 38 (page 39)	1-27
X	Synlett, issued November 1993, Michael Kahn, "Peptide Secondary Structure Mimetics: Recent Advances and Future Challenges", pages 821-826 Formulas 17, 18, 23 and 25-28	1-27

☒ Further documents are listed in the continuation of Box C☒ See patent family annex

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
20 May 1999Date of mailing of the international search report  
31 MAY 1999Name and mailing address of the ISA/AU  
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Tetrahedron, Volume 49, No: 17, 1993, W C Ripka et al, "Protein Beta-turn Mimetics II: Design, Synthesis, and Evaluation in the Cyclic Peptide Gramicidin S", pages 3609-3628 Formulas 1-10, 18-25 and Figure 1	1-27
X	Tetrahedron, Volume 49, No: 17, 1993, W C Ripka et al, "Protein Beta-turn Mimetics I: Design, Synthesis, and Evaluation in Model Cyclic Peptides", pages 3593-3608 Formulas 5-7, 13-20 and Figure 3	1-27
X	Tetrahedron, Volume 49, No: 17, 1993, James F Callahan et al, "The Use of Gamma-turn Mimetics to Define Peptide Secondary Structure", pages 3479-3488 Formulas 7 and 13-18	1-27
X	Formula 12	32
X	Tetrahedron, Volume 49, No: 17, 1993, Benjamin Gardner et al, "Conformationally Constrained Nonpeptide Beta-turn Mimetics of Enkephatin", pages 3433-3448 Figure 1	1-27
X	Bioorganic and Medicinal Chemistry Letters, Volume 3, No: 6, 1993, "Design and Synthesis of Hypertrehalosemic Hormone Mimetics", pages 1277-1282 Formula I	1-27
X	Bioorganic and Medicinal Chemistry Letters, Volume 3, No: 5, 1993, "Nonpeptide Beta-turn Mimetics of Enkephalin", pages 835-840 Formula 2 and 11	1-27
X	WO 96/22304 (Michael Kahn) 25 July 1996 Formulas I to VI and Table I	1-27
X	Pesticide Science, Volume 51, 1997, Ursula Egner et al, "Turn Mimetics for Peptide Design", pages 95 to 99 Compound 29	1-27
X	Tetrahedron, Volume 53, No: 38, 1997, Stephen Hanessian et al, "Design and Synthesis of Conformationally Constrained Amino Acids as versatile Scaffolds and Peptide Mimetics", pages 12789-12854 5, 7 fused rings on page 12843	30
X	WO 97/15577 (MOLECUMETICS LTD) 1 May 1997 Formula I	1-27,73
X	WO 92/13878 (UNIVERSITY OF ILLINOIS) 20 August 1992 Formulas I-V, VI	1-27
X	WO 95/25120 (MOLECUMETICS LTD) 21 September 1995 Formulas I-III, V, VI	1-27
X	WO 96/22304 (MOLECUMETICS LTD) 25 July 1996 Formulas I-VI	1-27,73
X	WO 98/49168 (MOLECUMETICS LTD) 5 November 1998 Formula I	1-27,73

# INTERNATIONAL SEARCH REPORT

## Information on patent family members

International application No.  
PCT/AU 99/00207

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
WO	96/22304	AU	47619/96	CA	2210349	EP	804460
		JP	10512570				
WO	97/15577	AU	75205/96	EP	876371		
WO	92/13878	AU	15702/92	AU	30664/95	AU	680379
		EP	573608	CA	2103577	JP	6505486
		US	5618914	US	5440013	US	5674976
		US	5475085	US	5670155	US	5672681
WO	95/25120	CA	2185534	EP	753008	JP	9510458
		US	5693325				
WO	96/22304	CA	2210349	JP	10512570		
WO	98/49168	AU	71679/98				
END OF ANNEX							